MAX V2

DOOR PHONE SYSTEMS

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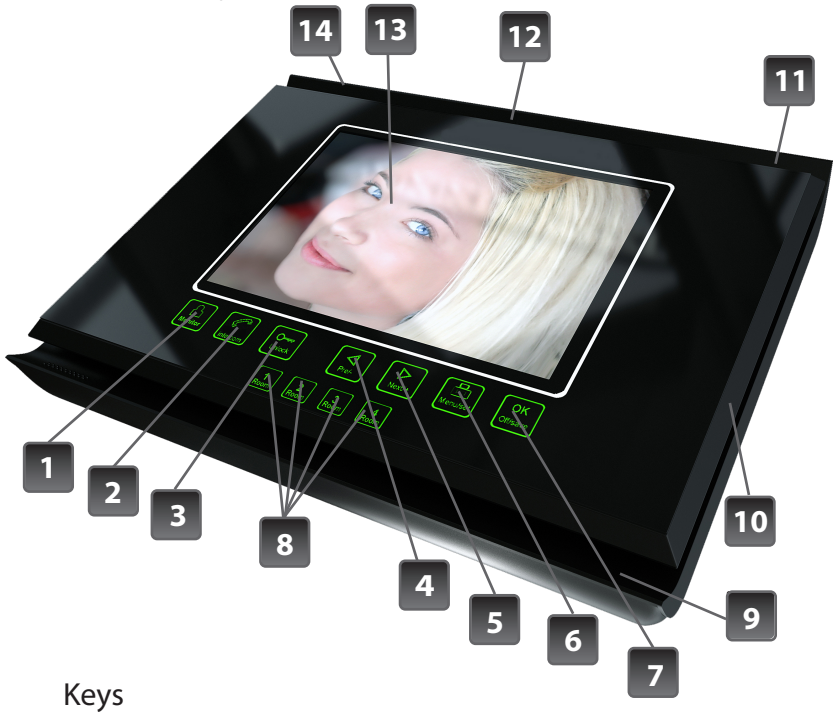
SYSTEMS

User's Manual

MAX V2

Package

Monitor – 1pc.
Wall mounting bracket with screws – 1pc.
Power cord – 1pc.
Door panel cords – 2pcs.
Camera cord - 1pc.
Sub monitor cord – 1pcs.
Telephone cord - 1pc. (only for MAX TEL V2)
User's manual – 1pc.



Keys

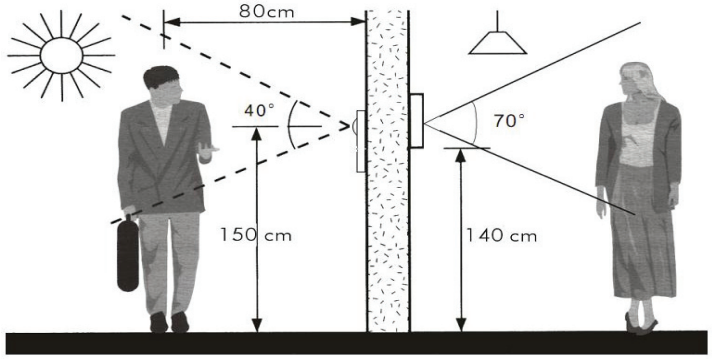
1. „Answer/View camera" button
2. „Intercom/Call redirection" button
3. „Open door" button
4. „Pre" button
5. „Next" button
6. „Multimedia menu/Settings" button
7. „Off/End call" button
8. Adress intercom buttons
9. Speaker
10. SD card slot
11. LED indicator
12. Microphone
13. Display
14. Power on/off switch

Characteristics:

- up to 4 monitors in one system
- 2 door panels connection
- 2 cameras connection (without audio)
- Incoming calls redirection between monitors in the system
- Brightness, contrast and color tuning of the display
- Video cupture to the SD-card (capacity up to 32 Gb)
- Photo cupture to the SD-card (capacity up to 32 Gb)
- Calendar and alarm clock
- Multimedia menu
- Music and image playback from SD-card
- Automatic answer function
- Door lock control through the panel or directly from the monitor
- „Don't disturb" function
- 9 mp-3 call melodies
- Incoming call redirection to the phone with possibility to open lock remotely (Only for MAX TEL V2 model)

Specification:

Display	7" LCD display
Resolution	800x480 (480 TV-lines)
Power (built-in power supply)	100-240V AC (50-60 Hz)
Power Consumption	12 W
Door Panels system	4-wires
Video signal system	Analog, PAL and NTSC system
Dimensions	260mm(W)> x 195mm(H) x 34mm(D)
Memory	SD-cards and internal photo memory



Installation instructions

A) Cable connection
1. Connect the monitor to the camera according to the wiring diagram.
2. Carefully insert the wires to the terminal, taking care that the 2 bare wires do not touch.

B) Installation height
Recommended installation height is approximately 140cm for monitor unit and 150cm for outdoor camera.

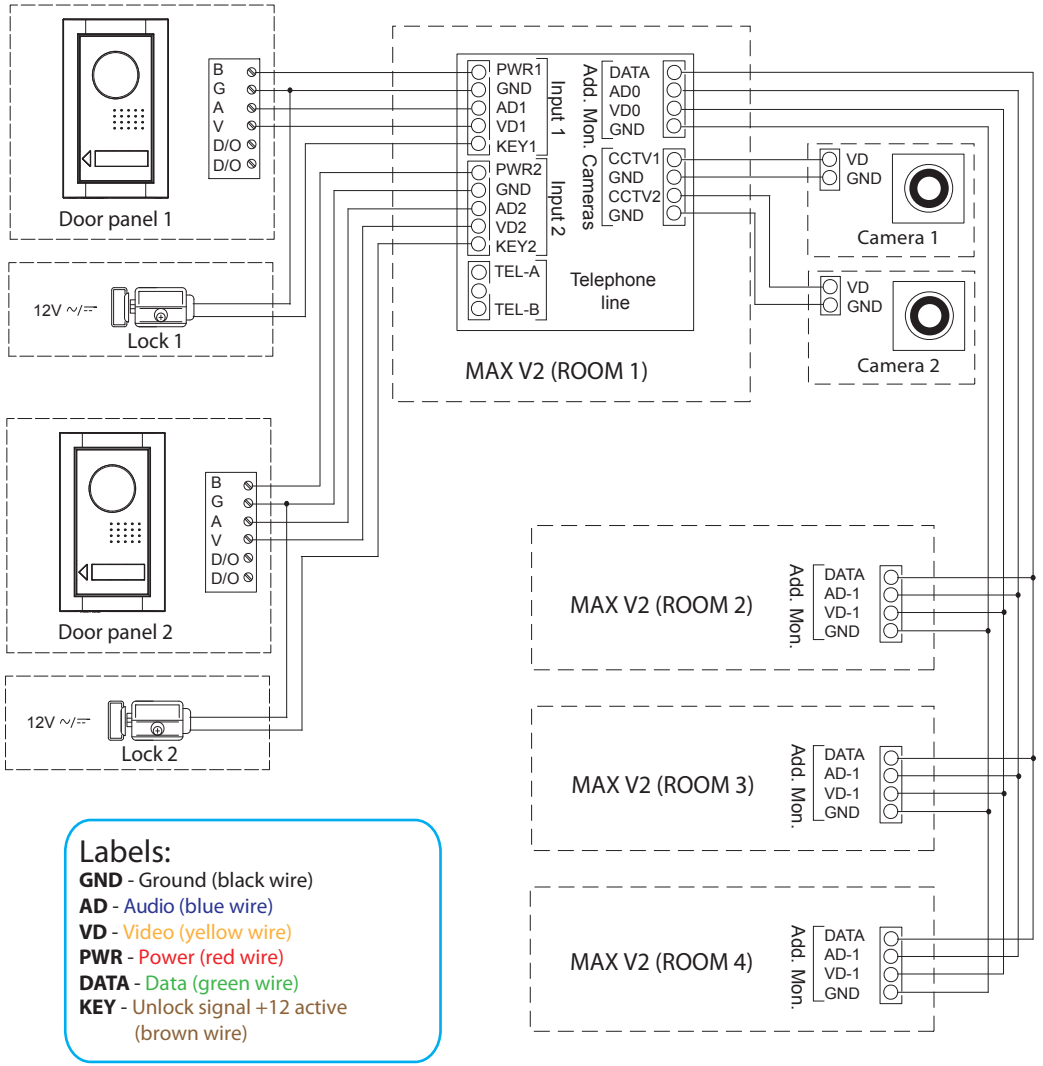
C) Installation of the monitor
1. Fix the wall mounting bracket in the best place by using screws and plugs.
2. Carefully place the indoor monitor against the bracket and gently push down the monitor so that the pins on the bracket engage in the slots on the rear of the monitor.

Cable recommendations:
If cable length between monitor and door panel not more than 30m then you can use 4-wire or 6-wire cable with 0,75 sq.mm. area of one wire. If this length exceeds 30m then you should use coaxial cable for video (for example RG69), all other connections 4-wire or 6-wire cable can be used.

ATTENTION!
Depending on monitor position in the system (If more then one monitor is used), right intercom address should be set for every monitor. Main monitor (all cameras and door panels are conected to the main monitor) intrcom address should be set ROOM1.
Additional monitors ROOM2, ROOM3 and ROOM4 intercom adresses should be used.
If there is only one monitor in the system, then intrcom address should be set ROOM1.

Attention!
Don't connect powerful devices (such as locks and CCD cameras with infrared backlight) directly to the power supply of door camera. It can cause damage to the monitor with no warranty provide. You should use external power supply for such powerful devices. Maximum current for door panel power is 500mA.

Wiring Diagram



Labels:
GND - Ground (black wire)
AD - Audio (blue wire)
VD - Video (yellow wire)
PWR - Power (red wire)
DATA - Data (green wire)
KEY - Unlock signal +12 active (brown wire)

Input 2 is multifunctional, you can connect additional camera to this input instead of second door panel. Camera connects to the VD -Video and GND - Ground wires. That case you should choose CCTV3 for the PORT 2 SETTINGS on the second page of SYSTEMSETTINGS menu.

Two door panels with locks and two cameras connection to the GRD MAX V2 monitors system

Multimedia manager

Shortly press Menu/Set button in standby mode to enter Multimedia Manager. Use Pre/- or Next/+ button to move through the menu. Shortly press Menu/Set button to enter current menu. Same way you can enter any sub menu. Press Off/Save button to exit current menu or multimedia manager.

	View the photos from the door panels and cameras
	View the records from the door panels and cameras
	View DVR records
	View media contains on microSD MULTIMEDIA folder.
	Voice playing
	Voice recording

System settings

Press and hold Menu/Set button for two seconds to enter SYSTEM SETTINGS:

1/2	SYSTEM SETTINGS
CHIME TIME	10 S
CHIME VOLUME	50%
CHIME TYPE SETTINGS	⇨
DON'T DISTURB	☒
CAN BE MONITORED	☑
MULTIMEDIA MENU ICONS NAME	☒
AUTO CAPTURE QUANTITY	1
COPY FILES ON SD CARD	⇨
DVR SETTINGS	⇨
ANSWER MODE	AUTO ANSWER
DEVICE ADDRESS	ROOM1

Press Pre/- or Next/+ button to move up and down through the settings. Press Menu/Set button to activate current setting and Pre/- or Next/+ button to change current setting. Then press Menu/Set button one more time to confirm your choise.

Press Off/Save button to exit system settings any time you want.

System settings consists of two pages. To go to the second page of the system settings, move the frame downwords by Next/+ button.

2/2	SYSTEM SETTINGS
PORT 2 STATE	DOOR2
PHONE NUMBER SETTINGS	⇨
SYSTEM TIME SETTINGS	⇨
ALARM CLOCK SETTINGS	⇨
FORMAT	⇨
SOFTWARE VERSION	⇨
BACKGROUND IMAGE SETTING	⇨
RESTORE DEFAULT	⇨
LANGUAGE	ENGLISH

To come back to the first page of the system settings, move the frame upwords by Pre/- button.

Incoming calls answer

When a visitor prsses door panel buttton, all the indoor monitors will chime simultaneously. The screen will show “PLEASE TAKE UP”, left upper angle of the screen will show the sign which door panel have been pressed (DOOR1 or DOOR2).

Press Monitor Answer button to talk with the visitor (talk time is 60 seconds). If you want to unlock the door for the visitor during conversation, press Unlock button.

DOOR1 UNLOCKED or DOOR 2 UNLOCKED will be shown on the screen. The unlock delay time is 3 seconds. To end current call before 60 seconds, press Off/Save button.

Talking volume adjust

When you talk with the visitor or when you make broadcast, you can adjust talking volume by shortly pressing Pre/- or Next/+ buton, to make volume lower or higher.

If you want to mute the microphone, then shortly press Monitor Answer button, and “MUTE” sign will appear on the screen. To turn the microphone on, shortly press Monitor Answer button again in the same way.

Brightness / color / contrast adjust

This settings can be made only during viewing or talking with the visitor.

The operations are as below:

In any above mode press and hold Pre/- or Next/+ button for 2 seconds to adjust BRIGHTNESS first. Short press Pre/- or Next/+ button to adjust, then press Monitor Answer button to adjust COLOR and then CONTRAST.

Door panels and CCTV cameras viewing

Shortly press Monitor Answer button in standby mode to view DOOR1 image. Press button again to view DOOR2 image. Then you can view CCTV1 and CCTV 2 by pressing Monitor Answer button again.

The switching time is 1.8 seconds. Press Off/Save button to end viewing at any time.

Note: when you are viewing images, if a call is coming from the door panel, the visitor call will be prior to viwing function. Press Monitor Answer button to answer the call. When you finished talking, press Off/Save button.

Image format convertation 16 : 9 or 4 : 3

Default image format is 16:9.

Sometimes, when you view images, CCTV cameras or when you talk with the visitor, you can see the images are flat. You can convert image format from 16:9 to 4:3 by pressing and hold Monitor Answer button for 2 seconds, then the image will be converted to 4:3 format.

Press and hold this button again then the image will be converted back to 16:9 from 4:3.

Unlocking door while viewing

Some time, when you are talking with DOOR1, you will see the sign on the screen “SOMEONE IS VISITING DOOR 2”. That means another person is pressing DOOR2, but you have no chance to talk with the person at DOOR2. So you have to press Off/Save button to hang up the phone of DOOR1. Press button to view who is visiting, then press and hold Unlock button for 2 seconds to talk with the visitor, the screen will show “PLEASE TALK”. If you want to unlock the door for this visitor, press Unlock button. DOOR2 UNLOCKED will be shown on the screen.

Call transfer between monitors

You can transfer your call to any monitor in the system while you are talking to the visitor. If you want to transfer the call for all monitors, then press Transfer Broadcast button or pres one of 1 Room 2 Room 3 Room 4 Room buttons to transfer the call only for one monitor. Press Monitor Answer button to answer the call on the target montor.

Internal calls among monitors

If you want to make intercom request for all monitors, shortly press Transfer Broadcast button in standby mode. All the indoor monitors will chime simulteniously, the screen in your room will show “INTERCOM REQUEST”. The screen in other room will show “PLEASE TAKE UP”. Anyone can press Monitor Answer button on the target monitor to talk to each other.

If a call is coming from the door panel, “PLEASE TAKE UP” will be shown on the screen. Press Monitor Answer button to answer the call. When you will finish conversation, press Off/Save button.

Broadcast function

This function allows you to broadcast information for all monitors in your house. To make broadcast announcement, press and hold Transfer Broadcast button for 2 seconds in standby mode. The monitor in your room will show “BROADCAST REQUEST”. The monitors in other rooms will show “BROADCASTING”. Now you can make broadcast announcement. Press Off/Save button to end broadcast request.

Other monitors listening

This function is active only if you have not less than 2 monitors. To activate listening of another monitor, press and hold any of 1 Room 2 Room 3 Room 4 Room buttons for 2 seconds, according to the room number you want to listen. Display of your monitor will show “LISTENING TO OTHER”. Listeining time is 8 hours, but the screen will be off in 5 seconds.

The being monitored monitor screen will show ”LISTENED BY OTHER”.

Note: CAN BE MONITORED function should be enabled in SYSTEM SETTINGS of the target monitor. If you want to deny listening of your monitor from another monitors, disable CAN BE MONITORED function in the SYSTEM SETTINGS menu of your monitor.

Auto leaving message

This function let your visitors to leave a video message for you while nobody is at home. You should activate AUTO ANSWER for ANSWER MODE function in the SYSTEM SETTINGS of your monitor before leaving home to activate this function.

When the visitor presses call button on the door panel and the chime time ends, visitor can hear a voice from the door panel and have 20 seconds after „beep" signal to leave a message for you.

DVR function

DVR function lets you record video from any panel or camera in your system by predefined schedule.

Enable DVR in SYSTEM SETTINGS --> DVR SETTINGS to activate that function.

You can also enable MOTION DETECTION SENSITIVITY. In that case video recording starts only when motion detected and 10 minutes after that. Motion detects only during schedule time interval. MOTION DETECTION SENSITIVITY can be set as LOW, NORMAL, HIGH, or can be disabled.

BEGIN TIME and END TIME defines schedule time interval. Recording starts at BEGIN TIME and ends at the END TIME, if MOTION DETECTION SENSITIVITY is disabled. You will see the image from the camera or door panel and sign „DVR IS WORKING" on the monitor screen when DVR starts working.

FRAME RATE and RESOLUTION defines quality of recorded image. Different values of quality can be availble depends on the micro SD card capacity. Minimal micro SD card capacity to start DVR function is 2Gb. Maximum frame rate and resolution availble from 8Gb micro SD card capacity.

As RECORD SOURCE you should choose video channel for the recording (only one video channel for recording can be applied).

SCREENSAVER TIME it is a time of display work in DVR mode. After that time display will be off, but DVR still working.

Notes:

1) DVR starts working in 10 seconds after BEGIN TIME.

2) DVR records only video, sound doesn't records.

DVR characteristics

microSD volume	Record resolution	Record frame rate	Record length
less than 2 GB	DVR is not active		
2 Gb	320*240 pixels	1 fps	More than 24 hours
4 Gb	320*240 pixels	1, 2, 5 fps	More than 24 hour with 1 fps record frame rate
8 Gb	320*240 pixels	1, 2, 5, 10 fps	More than 96 hour with 1 fps record frame rate
16 GB and more	320*240 or 640*480 pixels	1, 2, 5, 10 fps	More than 192 hour with 1 fps record frame rate

Manual photo and video capturing

You can make manual photo or video capturing during talking or viewing door panels or cameras.

Shortly press Menu/Set button to make a photo.

Press Menu/Set button for 2 seconds to start video recording. Shortly press Menu/Set button again to end video recording.

Photo and video view

If someone visit your house while you was absent then Menu/Set button will be blinking with green color.

Press Menu/Set button to enter Multimedia Manager.

You will see that and icons are in red frame when you enter Multimedia Manager. Press Pre/- or Next/+ button to choose from photo or video message view. Then press Menu/Set button to choose the year and month you want to view. You can choose the video or photo by pressing Pre/- or Next/+ buttons and then press Menu/Set button to view the target file.

Same way you can view DVR records in menu.

Note: all file names consits of the date and time it was created, for example: 2011-01-01 11:30:20, means that file was created on 1st of January 2011, 11:30 o'clock.

Fast forward

You can press Next/+ button during video playing to accelerate playing in two times (2x). Press Next/+ button one more time to accelerate playing up to 4x, and so on: 8x, 16x, 32x. If you will reach 32x speed playing and press Next/+ button one more time, system will back to the normal playing mode without acceleration.

Pause

Shortly press Pre/- button during playing to stop record play. Press Pre/- button again to start record play.

Volume settings

Press and hold Pre/- button during 2 seconds while playing to activate volume control in upper right corner of the display. Shortly press Pre/- or Next/+ button to decrease or increase playing volume.

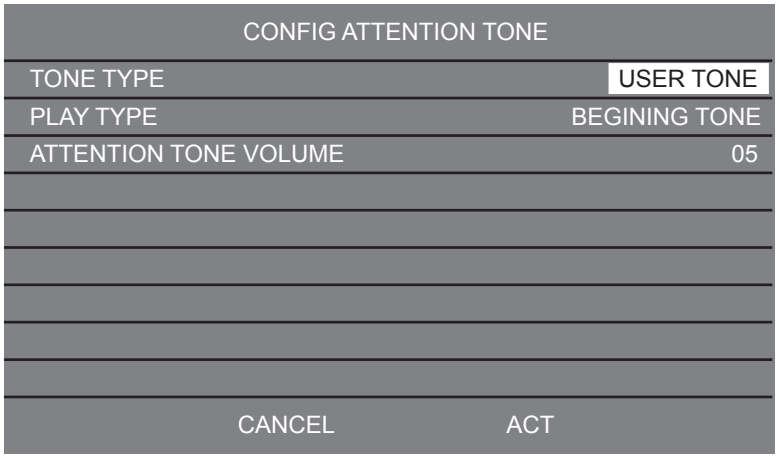
Voice messages

If you want to leave a message for your family, choose menu in MULTIMEDIA MANAGER and press button to enter it. Then press button again to start voice recording. When you will finish recording, press button one more time and record will be saved.

If your message was recorded succesfully, then menu will be flashing in red frame, which means that new message wasn't listened. Choose menu in MULTIMEDIA MANAGER and press button to enter it. Choose year, month and find your message using or keys. Press to enter current menu and start playing curent message.

Message change for automatic answering function

You can install your own begining or end message for automatic answering function. Enter MULTIMEDIA MANAGER menu and record two voice messages. Then exit record menu and enter voice listening menu . Find voice message that you want to install as „invitation" or „good bye" tone and choose it. Press button for 2 secons and you will enter CONFIG ATTENTION TONE menu.

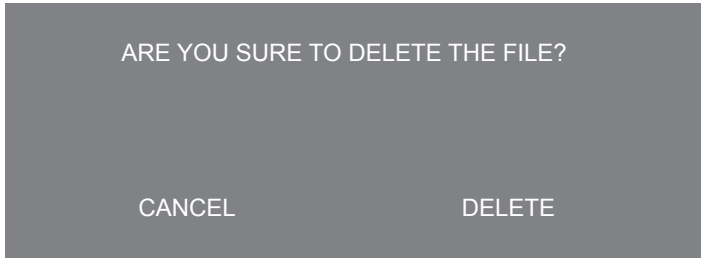


Set TONE TYPE as USER TONE to use your message. Set PLAY TYPE as BEGINING TONE if you want to use that message as „invitation" or set it as ENDING TONE if you want to use that message as „good bye" tone. ATTENTION TONE VOLUME defines volume of the door panel while playing your message.

After all settings being made press ACT to confirm all the changes or CANCEL to exit without saving.

Delete files

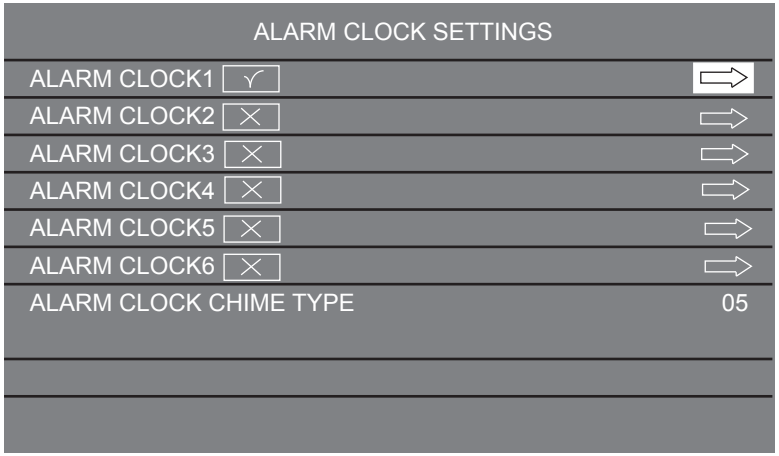
Enter MULTIMEDIA MANAGER and choose any file you want to delete. Then press button for 2 seconds to activate delete menu. You will see such menu on your screen:



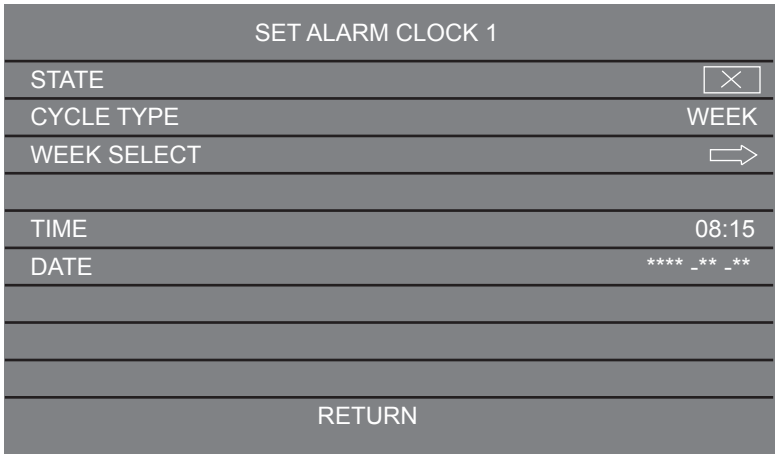
Choose the action you want to make with that file by or buttons and confirm your choise by short press of button.

Alarm clock

Press and hold button for 2 seconds in standby mode and you willl enter alarm clock settings menu. You will see next window on your screen:



Choose any of six alarm clocks by or button and enter it using button. You will see current alarm clock settings on your display:



STATE menu allows you enable or disable current alarm clock.

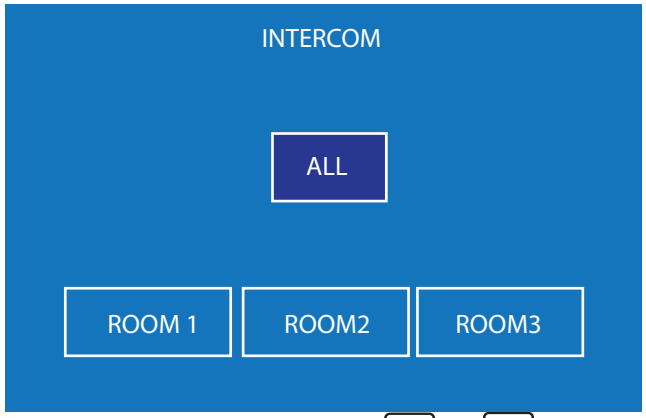
CYCLE TYPE menu allows you to choose SINGLE alarm clock, WEEK repeat, MONTH repeat or YEAR repeat alarm clock.

WEEK SELECT allows you to choose day of the week when alarm clock will be activated. WEEK SELECT menu is active only when CYCLE TYPE is set to the WEEK type.

TIME anв DATE menu allows you to set exact time when alarm clock will be activated.

Address intercom

If you have more than two monitors connected into one system then address intercom menu will be activated automaticly. When you will push Transfer Broadcast button, you will see next menu on your screen:



You can choose any ROOM you want to call by ◁ or ▷ buttons and then press Transfer Broadcast to call to the current ROOM. Or you can choose ALL to call all the monitors in your system. Also you can shortly press any of 1 Room 2 Room 3 Room 4 Room buttons in standby mode to call to the target room directly.

Address setting

Before starting to work with the monitor, you should correctly set DEVICE ADDRESS. To set DEVICE ADDRESS, enter system settings by press and hold Menu/Set buton for two seconds in standby mode.

Then go to the DEVICE ADDRESS setting, using Pre/- or Next/+ button. After that, shortly press Menu/Set button to activate address setting and use Pre/- or Next/+ button to choose correct address. Then press Menu/Set button to confirm address setting.

Set ROOM 1 if you have only one monitor in the system or if it is a monitor which all the door panels and cameras connected.

Set ROOM 2, ROOM 3 or ROOM 4 if there is no door panels or cameras connected to this monitor. Two monitors in one system can't have the same address at the same time!

Calendar

Press Off/Save button in standby mode to enter calendar & clock screen. Press Off/Save button again to turn off the calendar screen. Calendar screen works all the time after entering until it will be turned off or incoming call will be received from the door panel.

Language

Enter SYSTEM SETTINGS menu by pressing Menu/Set button for two seconds in standby mode. Then go to the second page of SYSTEM SETTINGS and choose LANGUAGE menu using Pre/- or Next/+ button. Activate LANGUAGE menu: shortly press Menu/Set button. Choose the language using Pre/- or Next/+ button. Confirm your choise by short press of Menu/Set button again.

Memory characteristics

Photo capturing function

Memory type	Photo resolution	Image quantity
Internal memory	320*240 pixels	near 60 images
microSD card	640*480 pixels	depends on microSD card volume

Video capturing function

SD card volume	Video resolution	Frame rate
1 Gb	320*240 pixels	2 fps
2 Gb	320*240 pixels	5 fps
4 Gb	320*240 pixels	10 fps
8 Gb or more	640*480 pixels	10 fps

Timings

Another monitor listening time	8 hours
Door panels view time	2 minutes
Video cameras view time	8 hours
Max. answer waiting time	1 minute
Photo view	display off after 10 minutes with no actions
Calendar and clock view	Manual off
Max. length of the voice message	10 minutes
Max. length of the manual video record	10 minutes
Image change time interval during slide show	5 seconds
Alarm clock melody length	10 seconds
Alarm clock repeat time	1 minute
Standby mode with no actions	1 minute
Min. answer waiting time	5 seconds
DVR turn on time from standby mode	10 seconds
DVR turn on time from calendar mode	10 seconds

System settings options

CHIME TIME can be seted as (in seconds): 05S/10S/15S/20S/25S/30S/35S/40S/45S/50S/55S/60S.

CHIME VOLUME can be changed as: 10%/20%/30%/40%/50%/60%/70%/60%/90%/100%

CHIME TYPE SETTINGS you can set any of 9 mp-3 melodies for every door panel (DOOR1 CHIME TYPE or DOOR2 CHIME TYPE) and also INTERCOM CHIME TYPE

DON'T DISTURB turn this function on [√] if you want to disable call melody from the door panel.

CAN BE MONITORED [X] if monitor mode is disabled, or [√] if monitor mode is enabled.

MULTIMEDIA MENU ICONS NAME [X] makes icon names invisible, [√] - icons names are visible.

AUTO CAPTURE QUANTITY automaticly captures 1,2 or 3 images when incoming call from the door panel was detected.

COPY FILES TO SD CARD lets you copy all files from the monitor memory to micro SD card. Choose COPY to start copying files or CANCEL to exit without copying.

DVR SETTINGS this function described on the 9th page of the manual.

ANSWER MODE can be set as MANUAL ANSWER, AUTO ANSWER or CALL TRANSFER to the telephone.

DEVICE ADDRESS can be set as ROOM1-ROOM4, see details on the 14th page of the manual.

PORT2 STATE can be set as: DOOR2/CCTV1/CCTV2, depends on the device, connected to the port2 input.

PHONE NUMBER SETTINGS defines telephone number for the CALL TRANSFER function.

SYSTEM TIME SETTINGS let you set system time and date.

ALARM CLOCK SETTINGS this function described on the 12th page of the manual.

FORMAT let you delete all the files from the internal memory of the monitor: FORMAT FLASH or delete all the files from micro SD card: FORMAT SD CARD. Then choose ACT to start format or CANCEL to exit without format.

SOFTWARE VERSION show you software version of the monitor program

BACKGROUND IMAGE SETTINGS set the image for menu background

RESTORE DEFAULT restores all factory settings of the monitor

LANGUAGE let you choose the language of the menues.

Transfer visitor calls to the telephone (only MAX TEL V2)

Go to the first page of SYSTEM SETTINGS and set ANSWER MODE to be CALL TRANSFER. Then enter PHONE NUMBER SETTINGS and enter phone number which you want to transfer calls. If you want to add a pause during phone number dial then use P, which means 1 second pause during dialing.
When somebody presses door panel and there is no answer during CHIME TIME, the call will be transfered to the telephone. "TRANSFERING TO TELE" will be shown on the monitor's display while transferring. When you pick up this call, you will hear the chimes from the door panel. Now you can press ## on your phone to talk with the visitor. Talking time is 60 seconds.
Press ** on your phone to hang up the phone call.
Press 00 on your phone to unlock the door remotely.
Note that monitor uses tone mode to dial phone numbers.

"Don't disturb" function

If you want to disable chime sound on the monitor, press and hold

button for 2 sec. in standby mode. LED indicator will become flashing by green color with 3 second interval - it means "Don't disturb" mode is active.
If you want to disable "Don't disturb" mode, press and hold

button for 2 sec., LED indicator will become green color - it means "Don't disturb" mode is disabled.
Also you can use SYSTEM SETTINGS menu to turn DON'T DISTURB on or off.

Safety Instructions

1. Do not install near other electronic equipment such as computers, TV, video recorder as this may cause radiated interference to the unit.
2. Do not disassemble the unit.
3. Do not spray water on the indoor unit. Do not keep the outdoor unit where it will be exposed to extreme moisture.
4. Do not overload mains wall outlets or extension cords.
5. Do not drop or shock the unit, dropping can result in failure to operate. Circuit boards can crack and may not survive the impact.
6. Remove the power cord from the wall socket when unit is not used for long periods
7. Do not place any naked flames (e.g. lighted candles) on the apparatus.
8. Do not place objects filled with water (e.g. vases) on the apparatus.
9. Do not cover the ventilation holes with clothing, paper, curtains etc.
10. Keep minimum distance 5cm around the apparatus for sufficient ventilation.
11. This apparatus is designed for middle climates. Do not use in high humidity, dusty or dirty areas. The electronics may be contaminated.
12. To disconnect or isolate the unit, switch off at the socket or remove plug from wall socket. Please ensure the plug and socket is easily accessible.
13. Do not store in hot or cold areas. Extreme hot or cold temperatures can shorten the life of electronic devices and can distort/melt certain plastics or may cause malfunction.
14. Do not use harsh chemicals, cleaning solvents or strong detergents. To clean, wipe with a damp cloth from time to time.

Warranty

Warranty period is 18 months from purchaseing.
Warranty void if unit was damaged by the fault of the custumer.
Warranty void if the sticker on the backside of the unit was broken.
Life time of the unit depends on it's maintainance and carefull using.

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